

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Serial Number:

Application Filed:

Applicant(s): KREAM, Richard M.

Title: Method of Transporting a Chimeric Hybrid Molecule Across the Blood
Brain Barrier

Art Unit:

Examiner:

INFORMATION DISCLOSURE STATEMENT

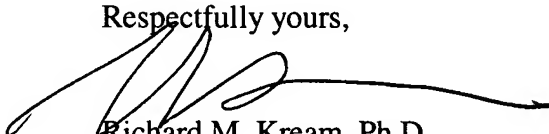
November 14, 2003

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United States Patent and Trademark Office
Washington, DC 20231

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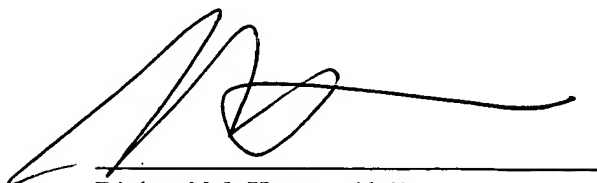


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Date: November 20, 2003

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Richard M. Kream, Ph.D.
Applicant

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Substitute for form 1449A/PTO		Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Application Number	10/134,187
		Filing Date	04/26/2002
		First Named Inventor	KREAM, RICHARD M.
		Art Unit	1614
		Examiner Name	
Sheet <input type="text"/>	of <input type="text"/>	Attorney Docket Number <input type="text"/>	

U.S. PATENT DOCUMENTS					
Examiner Initials ¹	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code ² (if known)			
		US- 5,891,842 (B1)	04/06/99	Kream, Richard	
		US- 6,310,072 (B1)	10/30/01	Smith, Marge, et al	
		US- 6,063,758 (B1)	05/16/00	Lappi, Douglas, et al	
		US- 09/428,692	Unpub.	Carr, Daniel, et al	
		US-			
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FOREIGN PATENT DOCUMENTS					
Examiner Initials ¹	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Country Code ³ - Number ⁴ - Kind Code ⁵ (if known)			
		PCT WO 01/30371 (A@)	05/03/01	Carr, Daniel, et al.	
		11060598	08/15/97	Matsumura	

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Substitute for form 1449B/PTO		Compleat if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Application Number	
		Filing Date	
		First Named Inventor	
		Group Art Unit	
		Examiner Name	
Sheet		of	Attorney Docket Number

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. 1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T ²
		REULER, et al., <i>The Chronic Pain Syndrone: Misconceptions & Management</i> , ANN INTERN MED. 93:588-596 (1980)	
		SRIWATANKUL, et al, <i>Analysis of Narcotic Analgesic usage in the Treatment of Postoperative Pain</i> , JAMA 250:926-929 (1983)	
		SCHECHTER, <i>Pain & Pain Control in Children</i> , CURRENT PROBLEMS IN PEDIATRICS 15 (1985)	
		GOODMAN & GILMAN, <i>The Pharmacological Basis of Therapeutics</i> 511 (7 th ed. 1985)	
		FORAN, et al, <i>A Substance P-opioid chimeric peptide as a unique nontolerance-forming analgesic</i> , 97 PNAS 13:7521-26 (2001)	
		EGELTON, et al, <i>Transport of Opioid Peptides into the Central Nervous System</i> , J PHARM SCI 1998, 87(11):1433-39	
		BORCHARD, <i>Optimizing oral absorption of peptides using prodrug strategies</i> , J CONTROL RELEASE 1999; 62(1-2):231-38	
		STAIN-TEXIER, <i>Elevated concentrations of morphine 6-beta-D-glucuronide in brain extracellular fluid despite low blood-brain barrier permeability</i> , BR J PHARMACOL 1999; 128(4):917-24	
		MERRIFIELD, <i>Solid Phase Synthesis</i> , SCIENCE 232: 241-47 (1986)	
		BARANY, et al, <i>Solid-phase peptide synthesis; a silver anniversary report</i> , INT'L J PEPTIDE PROTEIN RES 30:705-39 (1987)	
		KENT, <i>Chemical Synthesis of Peptides and Proteins</i> , ANN REV BIOCHEM 57:857-989 (1988)	

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		Group Art Unit	1614
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OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. 1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T ²
		KAISER, et al, <i>Peptide & Protein Synthesis by Segment Synthesis-Condensation</i> , SCIENCE 243:187-98 (1989)	
		KREAM, <i>Substance P markedly potentiates the antinociceptive effects of morphine sulphate administered at the spinal level</i> , 90 PNAS 5564-68 (1993)	
		MASCZYNSKA, et al, <i>Alternative forms of interaction of substance P and opioids innocipetive transmission</i> , LTRS PEPTIDE SCI 298, 5:395-98 (1998)	
		MASCZYNSKA, et al, <i>Dual Functional Interactions of Substance P Opioids in Nociceptive Transmission</i> , ANALGESIA 3:259-68 (1998)	
		WATSON, et al, <i>Tissue Selectivity of Substance P Alkyl Esters Suggesting Multiple Receptors</i> , EURO J PHARMACOL 87:77-84 (1983)	
		SIZHENG, et al, <i>Opioid and neurokinin activities of substance P fragments and their analogs</i> , EURO J PHARMACOL 193:209-15 (1991)	
		LIPKOWSKI, et al, <i>An Approach to the Self Regulatory Mechanism of Substance P Actions</i> , 33 LIFE SCIENCES 141-44 (1983)	
		FORAN, et al, <i>Inhibition of Morphine tolerance Development by a Substance P-Opioid Peptide Chimera</i> , J PHARMACOL & EX THERA 295:3:1142-48 (2000)	
		LIPKOWSKI, et al, <i>Opioid Peptide Analogues: Reconsideration as a Potentially New Generation of Analgesics</i> , POLISH J CHEM, 68:907-12 (1994)	
		MISTEREK, et al, <i>Spinal Co-Administration of Peptide Substnace P Antagonist Increases Antinociceptive Effect of the Opioid Peptide Biphalin</i> , 54 LIFE SCIENCES, 14:939-44 (1994)	
		FORAN, et al, <i>Chimeric Peptide for the Treatment of Acute & Chronic Pain</i> , ANESTHESIOLOGY 91:3A:A944 (1999)	

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Substitute for form 1449B/PTO		Application Number	10/134,187
INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>		Filing Date	04/26/2002
		First Named Inventor	KREAM, RICHARD M.
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Application Number	10/134, 187
Filing Date	04/26/2002
First Named Inventor	KREAM, RICHARD M.
Art Unit	1614
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NON PATENT LITERATURE DOCUMENTS

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